

Amendments to the Specification:

Please replace the paragraph beginning on page 5, line 9 and ending on page 5, line 23 with the following amended paragraph:

According to an aspect of the invention to obtain the foregoing objects, it is provided a method for generating orthogonal spread codes in a mobile communication system comprising: generating a first square matrix having a size of powers of 2 by operating an initial 2x2 matrix 2×2 , generating a second square matrix of same size of the first square matrix by operating the first square matrix, composing a third square matrix of double size of the first square matrix by arranging the first square matrix as a second quarter matrix and a third quarter matrix of the third square matrix, arranging the second square matrix as a first quarter matrix of the third square matrix, and arranging the second square matrix as a fourth quarter matrix of the third square matrix by multiplying all elements thereof with -1 , making a deformed matrix by inserting a zero vector between a column or a row of the third square matrix and generating orthogonal spread codes for channel discrimination from the rows or columns of the deformed matrix.

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Please replace the paragraph beginning on page 7, line 8 and ending on page 7, line 18 with the following amended paragraph:

According to other aspect of the invention, it is provided a method for generating orthogonal spread codes in a mobile communication system comprising : operating an 2×2 initial 2×2 matrix to generate a first square matrix having a size of powers of 2, arranging the first square matrix as a second quarter matrix and a third quarter matrix, operating the first square matrix to generate a second square matrix, arranging the second square matrix as a first quarter matrix and applying a minus symbol to all elements of the second square matrix to generate a fourth quarter matrix, composing a third square matrix by taking the first to fourth quarter matrices as quarter matrices of the third square matrix, inserting zero column vectors among certain columns of the third square matrix to compose a target matrix and taking rows of the target matrix to generate orthogonal spread codes for channel discrimination.

Please replace the paragraph beginning on page 8, line 17 and ending on page 9, line 1 with the following amended paragraph:

In the resultant LS codes, the numbers in at the left ~~designates~~ designate corresponding code numbers, ~~symbols and the + and - respectively designates~~ symbols correspond to +1 and -1, respectively. Also, the LS codes are divided into C and S components. The C and S components shown in each line of Figures 1A to 1F are separated by a comma, and the

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~~components to the left based upon ',' or 'comma', in which the left part of the comma designates~~
~~are the C components, while the components to and the right part of the comma designates are~~
the S components. ~~Again, the~~ The C components are divided into the first C components in the
first half of the code, at its upper part, and the second C components in the second half of the
code, at its lower part. In this case, it can be seen that the first C components are the same as
the second C components. Also, the S components are divided into the first S components in
the ~~upper part~~ first half and the second S components in the ~~lower part~~ second half. In this case,
it can be seen that the first S components have symbols opposite to those of the second S
components.